

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant: Alexander Alexandrovich Maltsev et al.

Title: SYSTEM AND METHOD FOR CHANNELIZATION RECOGNITION IN A WIDEBAND COMMUNICATION SYSTEM

Docket No.: 884.A53US1

Serial No.: 10/728,476

Filed: December 4, 2003

Due Date: N/A

Examiner: Unknown

Group Art Unit: 2631

MS Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

☒ A return postcard.

☒ A Supplemental Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 9 cited documents, including the International Search Report for corresponding PCT Application No. PCT/US2004/038736 (4 pgs.).

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Customer Number 21186

By: Ann M. McCrackin
Atty: Ann M. McCrackin
Reg. No. 42,858

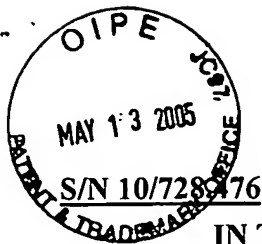
CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 11TH day of May, 2005.

JAMES KANYUSIK
Name

James Kanyusik
Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

(GENERAL)



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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|-------------|--|-----------------|------------|
| Applicant: | Alexander Alexandrovich Maltsev et al. | Examiner: | Unknown |
| Serial No.: | 10/728,476 | Group Art Unit: | 2631 |
| Filed: | December 04, 2003 | Docket: | 884.A53US1 |
| Title: | SYSTEM AND METHOD FOR CHANNELIZATION RECOGNITION IN A WIDEBAND COMMUNICATION SYSTEM | | |
| Assignee: | Intel Corporation | Customer No: | 21186 |

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

The documents, listed on the attached 1449, were discovered as a result of a Search Report in Applicants' corresponding foreign patent application. Enclosed for the Examiner's information is a copy of the Search Report and the cited foreign patent documents and other publications.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Supplemental Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Supplemental Information Disclosure Statement considered.

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Serial No : 10/728,476

Filing Date: December 04, 2003

Title: SYSTEM AND METHOD FOR CHANNELIZATION RECOGNITION IN A WIDEBAND COMMUNICATION SYSTEM

Assignee: Intel Corporation

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Dkt: 884.A53US1 (INTEL)

The present application is either a U.S. national patent application filed after June 30, 2003 or an international application that entered the national stage under 35 U.S.C. § 371 after June 30, 2003. Thus, Applicant believes that the U.S. Patent & Trademark Office has waived the requirement under 37 C.F.R. 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication. The waiver is provided in a pre-OG notice from the U.S. Patent & Trademark Office entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003" and dated July 11, 2003. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

ALEXANDER ALEXANDROVICH MALTSEV ET AL.

By their Representatives,

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Date May 11, 2005

By Ann M. McCrackin
Ann M. McCrackin
Reg. No. 42,858

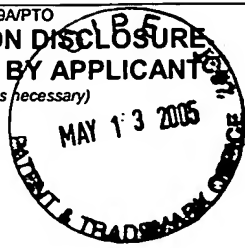
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JAMES KANYUSIK
Name

[Signature]
Signature

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use as many sheets as necessary)

Complete if Known

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|----------------------|--------------------|
| Application Number | 10/728,476 |
| Filing Date | December 4, 2003 |
| First Named Inventor | Maltsev, Alexander |
| Group Art Unit | 2631 |
| Examiner Name | Unknown |

Sheet 1 of 1

Attorney Docket No: 884.A53US1

US PATENT DOCUMENTS

| Examiner Initial * | USP Document Number | Publication Date | Name of Patentee or Applicant of cited Document | Filing Date If Appropriate |
|--------------------|---------------------|------------------|---|----------------------------|
| | US-2005/0078707 A1 | 04/14/2005 | Maltsev, A. A., et al. | 09/30/2003 |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Foreign Document No | Publication Date | Name of Patentee or Applicant of cited Document | T ² |
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| | WO-01/99362A2 | 12/27/2001 | Smart, K. J., et al. | |
| | WO-03/061204A1 | 07/24/2003 | Choi, S. | |
| | WO-2005/004500A2 | 01/13/2005 | Terry, J., et al. | |
| | WO-2005/034435A2 | 04/14/2005 | Maltsev, A. A., et al. | |

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|--------------------|----------------------|--|----------------|
| | | "802.11g™ IEEE Local and Metropolitan Area Networks; Part 11: Wireless LAN Medium Accesss Control (MAC) and Physical Layer (PHY) specifications; Amendment 4:Further Higher Data Rate extension in the 2.4 GHz Band", <u>IEEE STD 802.11G</u> , The Institute of Electrical and Electronics Engineers, Inc. NY,(Jun. 27, 2003), 78 pgs. | |
| | | "International Search Report for corresponding PCT Application No. PCT/US2004/038736", (Attorney Docket No. 884.A53WO1),(April 19, 2005), 4 pgs. | |
| | | "Supplement to IEEE Standard for IT-Telecomm. & Info. Exchange Between Systems - Local and Metropolitan Area Networks - specific requirements. Part 11:Wireless LAN Medium Access Control(MAC)and Physical Layer(PHY)Specs:High-speed Physical Layer in 5GHZ Band", <u>IEEE Std 802.11a-1999</u> , (Dec. 30, 1999), 1-90 | |
| | | MOTEGI, M., et al., "Optimum Modulation Assignment According to Subband Channel Status for BST-OFDM", <u>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, Institute of Electronic Sciences, Institute of Electronics Information and Communications Eng., Vol. E84-A (7)</u> , (Jul. 1, 2001), 1714-1722 | |
| | | ZHEN, L., et al., "A Modified Sub-Optimum Adaptive Bit and Power Allocation Algorithm in Wideband OFDM System", <u>CCECE 2003 Canadian Conference on Electrical and Computer Engineering</u> , Vol. 3 of 3, 2003 IEEE, (May 4, 2003), 1589-1592 | |

EXAMINER**DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached